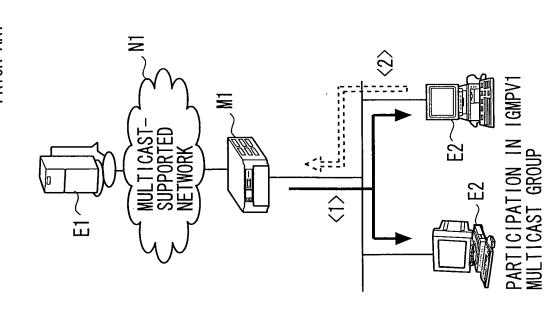


*F/G. 2* PRIOR ART

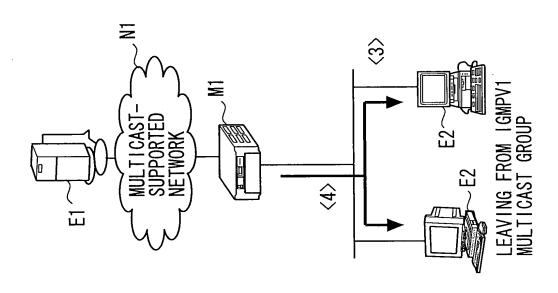
CLASS-D ADDRESS	APPL I CAT I ON
224. 0. 0. 0	RESERVED
224. 0. 0. 1~224. 0. 0. 255	ASSIGNMENT FOR ROUTING PROTOCOL ETC.
224. 0. 0. 1-ALL-SYSTEMS	
224. 0. 0. 2-ALL-ROUTERS	
224. 0. 0. 4-DVMRP ROUTERS	
224. 0. 0. 5-0SFP-ALL	
• •	
•	
224. 0. 1. 0~238. 255. 255. 255	ASSIGNMENT FOR PUBLIC USE
224. 0. 1. 7-AUDIO NEWS	
224. 0. 1. 11-V01CE OF 1ETF MEETING	
224. 0. 1. 12-VIDEO OF IETF MEETING	
224. 0. 1. 16-MUSIC SERVICE	
• • •	
239. 0. 0. 0~239. 255. 255. 255	ASSIGNMENT FOR LOCAL SITE

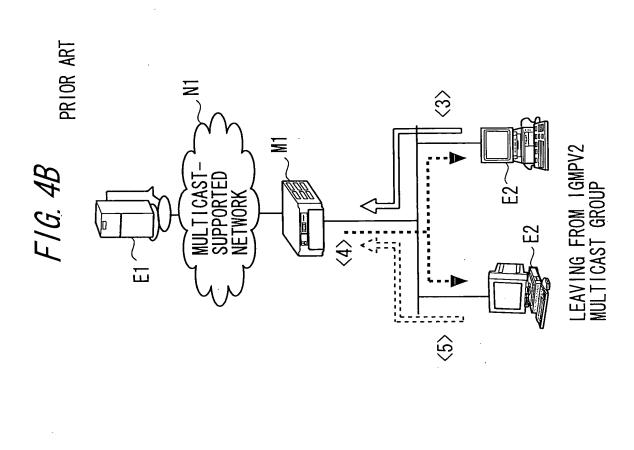
F/G. 34 PRIOR ART



F16.3B

PRIOR ART





E1 MULTICAST NI
SUPPORTED
NETWORK

(1)

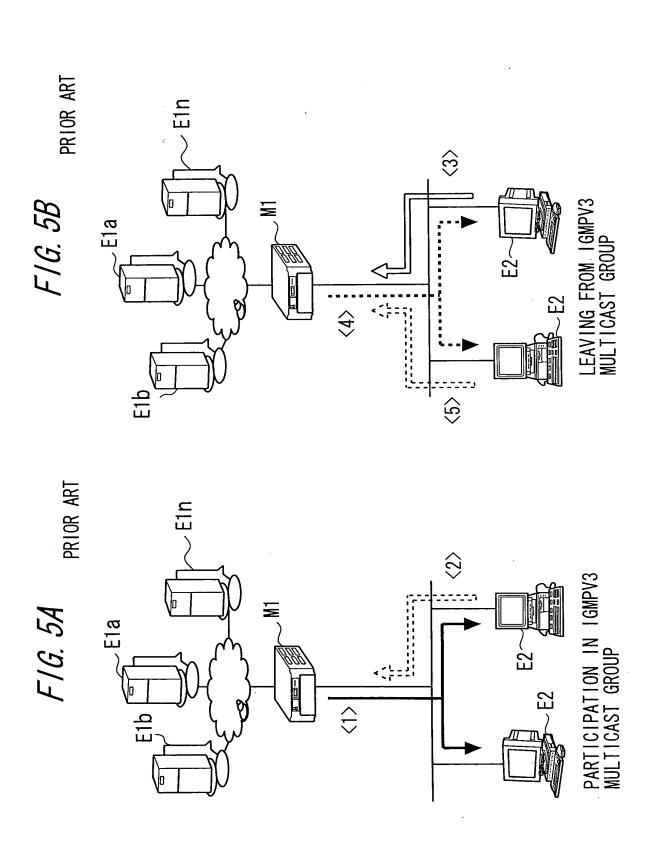
(1)

(1)

(2)

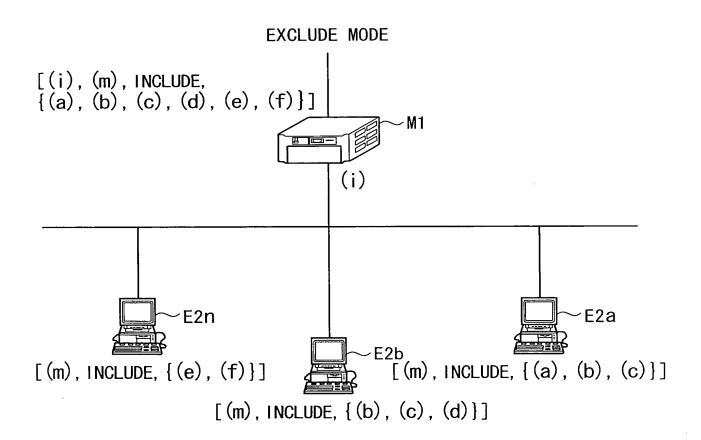
PARTICIPATION IN IGMPV2

MULTICAST GROUP



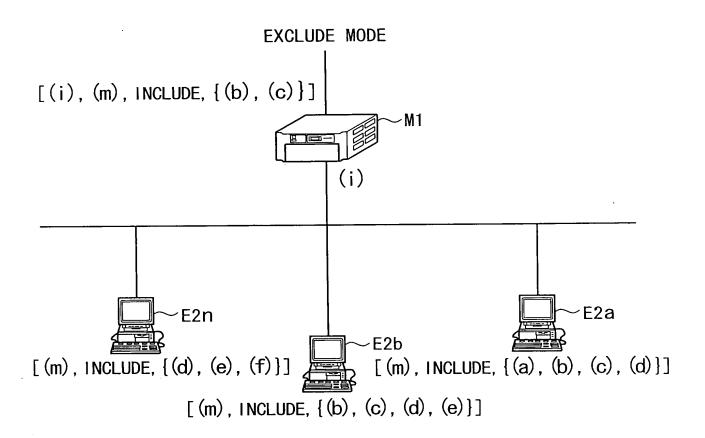
## F/G. 6

#### PRIOR ART



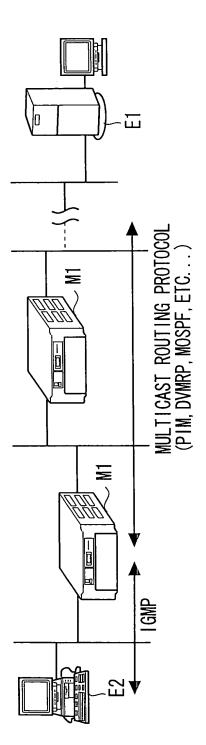
F/G. 7

#### PRIOR ART



F/G. 8

PRIOR ART

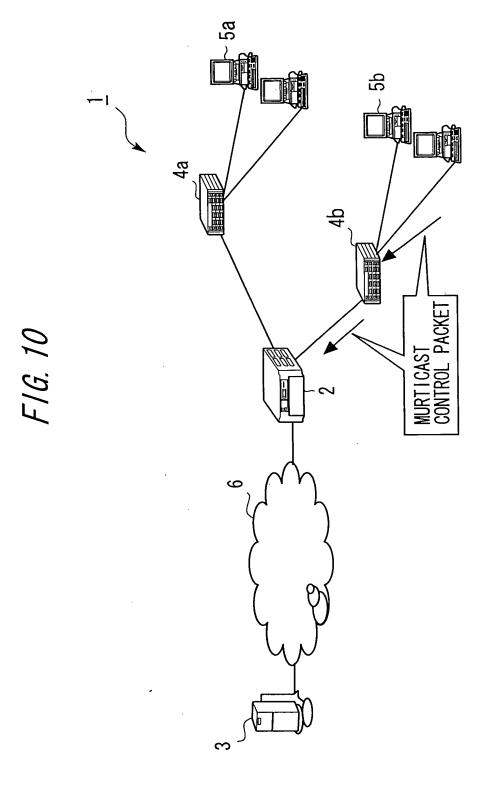


## F/G. 9

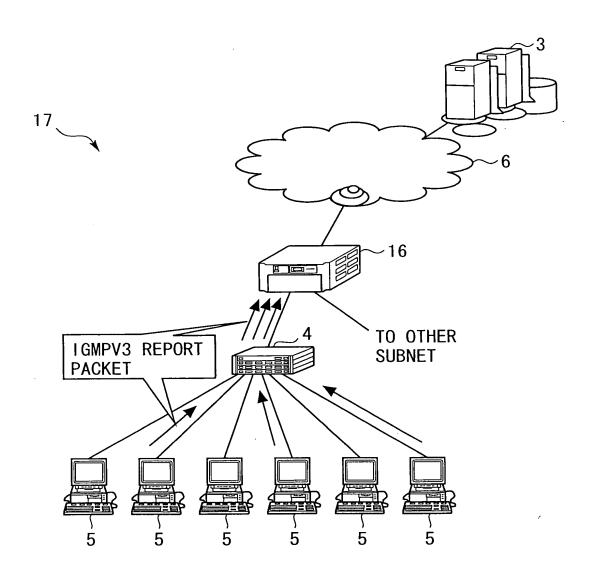
PRIOR ART

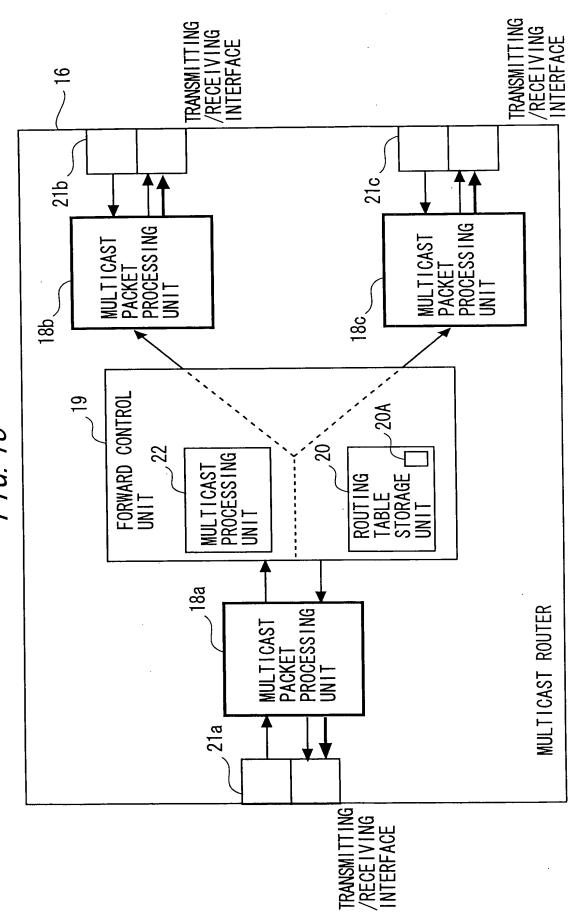
### RFC1112

	UPPER LAYER
IP	SERVICE INTERFACE
IP	IGMP
LOCAL	NETWORK SERVICE INTERFACE
	IP TO PHYSICAL ADDRESS MAPPING(e.g.ARP)
DATA LINK LAYER	
	PHYSICAL LAYER

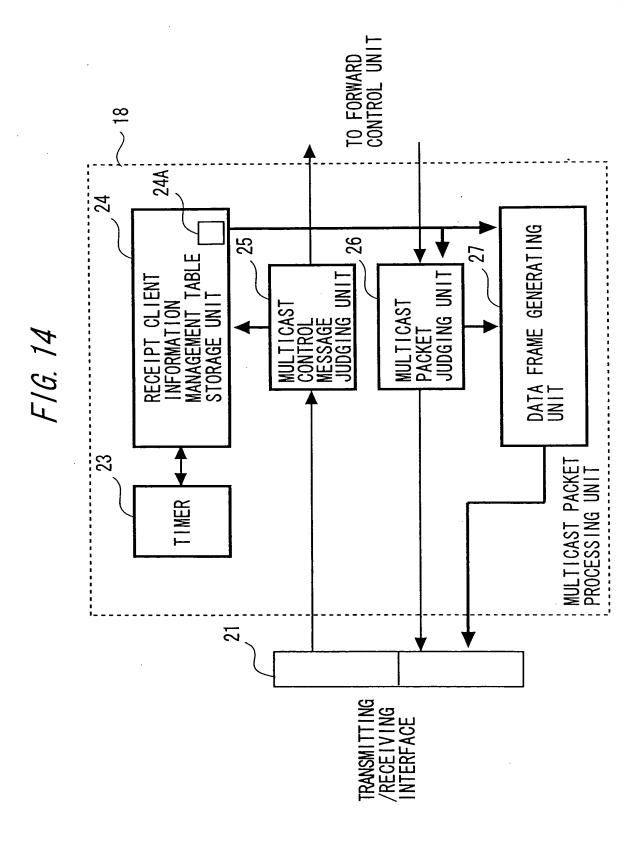


F/G. 12





F1G. 13



# F1G. 15

24A	ENTRY NUMBER CLIENT ADDRESS CLIENT MAC ADDRESS MULTICAST ADDRESS SOURCE ADDRESS FILTER MODE	61. 143. 221. 2 INCLUDE	61. 143. 221. 3	61. 143. 221. 4	201. 67. 113. 65 INCLUDE	211. 67. 0. 3 EXCLUDE	211. 67. 0. 5	174. 67. 119. 68 INCLUDE	61. 143. 221. 2 EXCLUDE	61. 143. 221. 5	61. 143. 221. 6	198. 12. 57. 227 EXCLUDE	198. 12. 57. 238	172. 0. 12. 5 EXCLUDE	61. 143. 221. 2 INCLUDE	61. 143. 221. 3	61. 143. 221. 5
	MULTICAST ADDRE	238. 0. 0. 123			238. 28. 0. 33	238, 225, 13, 33		239, 128, 0, 23	238. 0. 0. 123			239. 12. 67. 192		238, 125, 65, 1	239, 128, 0, 123		
	CLIENT MAC ADDRESS	XX:XX:XX:12:34				87:36:XX:XX:XX:XX		XX:XX:XX:90:12	XX:XX:XX:34:56					06:87:xx:xx:xx:xx	XX:XX:XX:01:23		
	CLIENT ADDRESS	210. 23. 171. aa			,	210. 23. 171. bb		210. 23. 171. cc	210. 23. 171. dd					210. 23. 171. ee	210. 23. 171. ff		
	ENTRY NUMBER	-				2		3	4					5	9		

F1G. 16

IGMP MESSAGE FORMAT

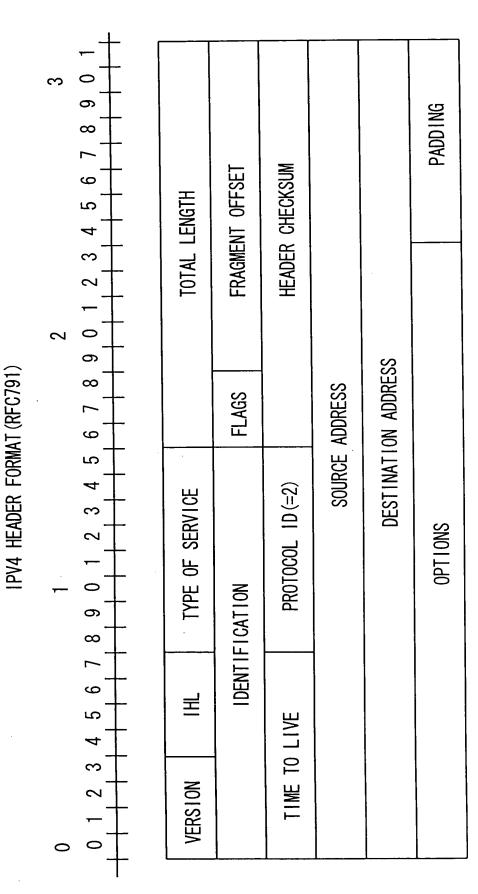
FCS	
IGMP MESSAGE	
IP HEADER	
MAC HEADER (14BYTE)	

F1G. 17

MLDV2 MESSAGE FORMAT

MLDV2 MESSAGE IPV6 HEADER MAC HEADER (14BYTE)

FCS



F/G. 19

VERSION	TRAFFIC CLASS		FLOW LABE	L
PAYLOA	D LENGTH		NEXT HEADER	HOP LIMIT
		JRCE AD	DDRESS	
·	DESTIN		ADDRESS	

IPV6 HEADER FORMAT (RFC2460)

F1G. 20

RECORD AUX DATA SOURCES (N)  MULTICAST ADDRESS  SOURCE ADDRESS[1]  SOURCE ADDRESS[N]  SOURCE ADDRESS[N]  AUXILIARY DATA	
RECORD	
3 (M) S(M)	
CORD [M]	CORD [M]
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1	GROUP RE

IGMPV3 REPORT MESSAGE FORMAT

F16.21

RECORD AUX DATA NUMBER OF SOURCES (N)	MULTICAST /	SOURCE ADDRESS[1] SOURCE ADDRESS[2]	SOURCE ADDRESS[N]	AUXILIARY DATA	
0 01234567890123456789012345678901 TYPE=136 RESERVED CHECKSUM	RESERVED NUMBER OF MULTICAST ADDRESS RECORDS (M)	MULTICAST ADDRESS RECORD[1]	MIII TICACT ADDECC BECORD [2]		MULTICAST ADDRESS RECORD[M]

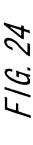
MLDV2 REPORT MESSAGE FORMAT

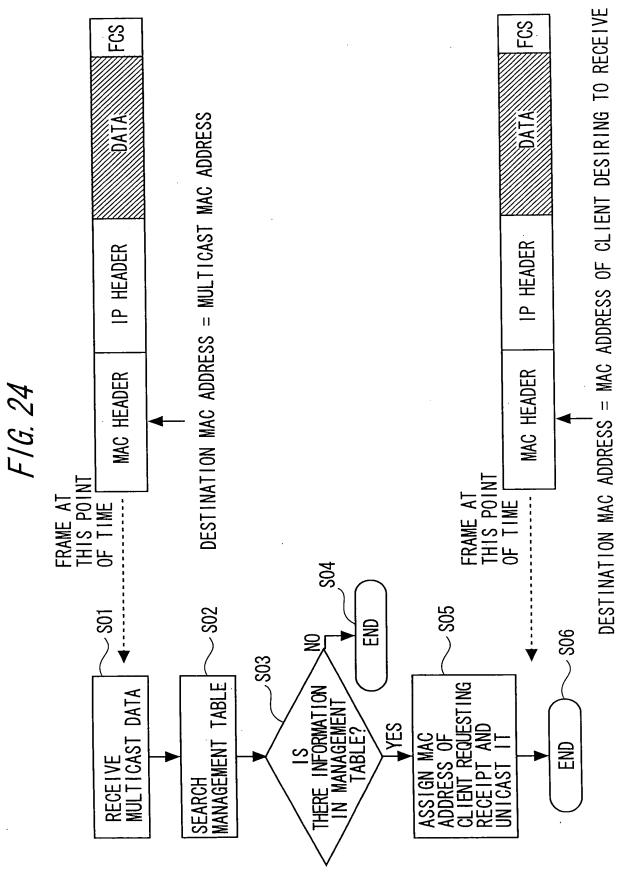
F1G. 22

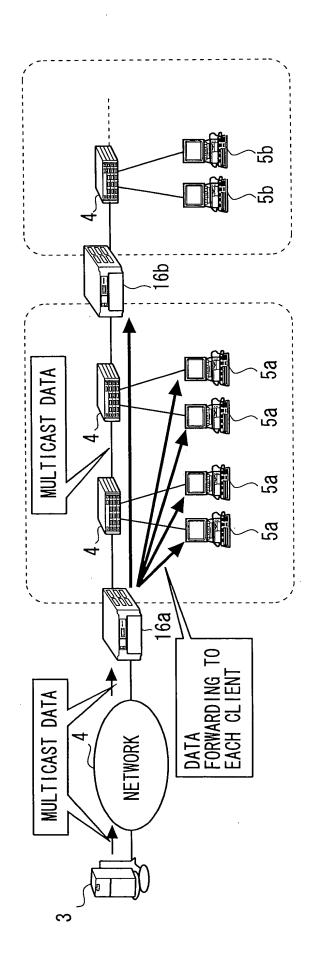
Г	Ш			Τ	
, 24A	CLIENT MAC ADDRESS MULTICAST ADDRESS SOURCE ADDRESS FILTER MODE	•	•	•	INCLUDE
	ADDRESS	•	•	•	61. 143. 221. 38
	SOURCE				61.143
	ADDRESS.				222
	MULTICAST	•	•	•	238. 0. 2. 222
	ADDRESS 1				XX:XX:XX:45:67
	MAC	•	•	•	×
	CL IENT				: XX : XX
	ADDRESS			•	171. gg
	CL I ENT				210. 23. 171. gg
	NTRY NUMBER CLIENT ADDRESS				
	ENTR	•	•	•	7

F/G. 23

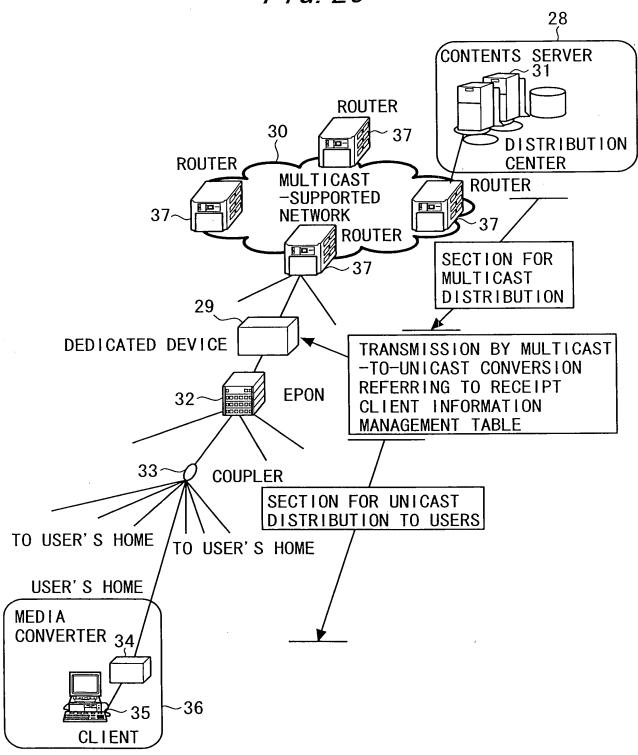
_						_
24A	FILTER MODE	EXCLUDE	INCLUDE	•	•	•
	SOURCE ADDRESS	61. 143. 221. 2 EXCLUDE	201. 67. 113. 65 INCLUDE	•	•	•
	MULTICAST ADDRESS	238. 0. 0. 123	238. 28. 0. 33	•	•	•
	CLIENT MAC ADDRESS MULTICAST ADDRESS SOURCE ADDRESS FILTER MODE	xx:xx:xx:xx:12:34 238.0.0.123		•	•	•
	ENTRY NUMBER CLIENT ADDRESS	210. 23. 171. aa		•	•	•
	ENTRY NUMBER	-	-		•	•

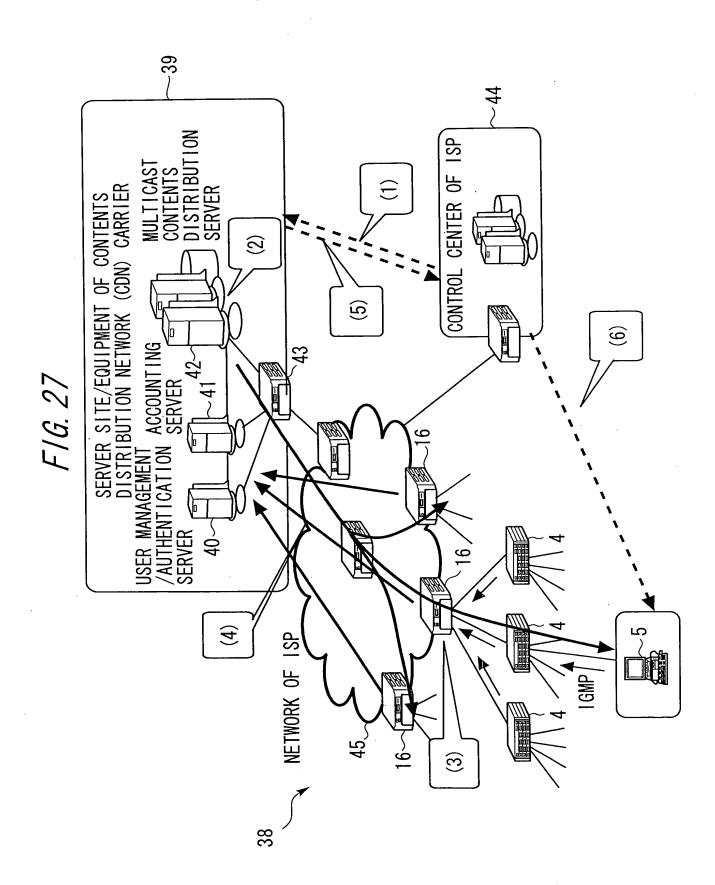






F/G. 26





F/G. 28 USER MANAGEMENT TABLE

		USER MANAGEMENT TABLE		46
USER NAME	USER ADDRESS (CLIENT ADDRESS)	RECEIPT CONTENT ADDRESS (MULTICAST ADDRESS)	RECEPTION STARTING TIME	RECEPTION ENDING TIME
A	xxx. xx. x. 111	238. 0. a. aaa	111	112
		238. 0. a. bbb	T13	T14
В	xxx. xx. x. 112	238. 0. a. bbb	121	T22
O	xxx. xx. x. 113	238. 0. a. aaa	131	T32
		238. 0. a. bbb	T33	T34
		238. 0. a. ccc	T35	Т36
	• •	• •	• •	• 0
•	•	•	•	•
•	•	•	•	•
• •	• •	• •	•	• •
>	xxx. xx. x. 124	238. 0. a. aaa	T241	1242
7	xxx. xx. x. 125	238. 0. a. bbb	1251	1252

F16. 29

